

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Currently Amended):       An apparatus, operable in a wireless communication system, comprising:

a customer manager to determine a user preference for selective re-encoding of a multimedia stream;

an encode manager included within wireless service provider equipment of the wireless communication system that receives [[a]] the multimedia stream and selects at least one of a plurality of encoding parameter sets in accordance with an encoding scheme, wherein the encoding scheme includes a scheme based on the user preference, wherein the multimedia stream includes a plurality of different types of data, wherein the plurality of encoding parameter sets include a first encoding parameter set for encoding only a first type of the plurality of types of data, a second encoding parameter set for encoding only a second type of the plurality of types of data different from the first type and a third encoding parameter set for encoding multiple types of the plurality of types of data, and wherein the user preference indicates which of the first, second and third encoding parameter sets to use when encoding the multimedia stream and dynamically determines a current bandwidth available for the multimedia stream within the wireless communication system based on a current number and types of users using the wireless communication system; and

an encoder system included within the wireless service provider equipment for selectively re-encoding the received stream using an the selected one of the plurality of encoding parameter sets to output an encoded stream with principles set forth by the selected one of the plurality of encoding parameter sets, wherein the encoding parameter set is determined according to an encoding scheme based on the currently determined available bandwidth within the wireless communication system.

Claim 2 (Currently Amended): The apparatus of claim 1, wherein the encoding scheme is selected from a group ~~consisting~~ that includes of a scheme based on a system bandwidth, a scheme based on a wireless receiver capability, a scheme based on a number of users requesting a specific multimedia stream at a designated QoS, a scheme based on a multimedia data type, ~~[[a]]~~ the scheme based on ~~[[a]]~~ the user preference and a scheme based on characteristics of a mobile station.

Claim 3 (Currently Amended): The apparatus of claim 2, wherein the customer manager uses the scheme based on the user preference ~~is used~~ to generate billing information.

Claim 4 (Currently Amended): The apparatus of claim 2, wherein the customer manager uses the scheme based on the multimedia data type ~~is used~~ to generate billing information.

Claim 5 (Currently Amended): The apparatus of claim 2, further comprising an encoder for executing the selected one of the plurality of encoding ~~encoder~~ parameter sets based on the encoding scheme.

Claim 6 (Currently Amended): The apparatus of claim 2, further comprising a plurality of encoders, each for executing one of the plurality of encoder parameter sets ~~based on the encoding scheme~~.

Claim 7 (Currently Amended): The apparatus of claim 1, wherein the encoder manager includes a bandwidth manager that dynamically determines ~~[[the]]~~ an available bandwidth for the multimedia stream.

Claim 8 (Currently Amended): The apparatus of claim 1, further comprising a decoder for receiving the multimedia stream and decoding the received stream to output a decoded stream, wherein the encoder system re-encodes the received stream by re-encoding the decoded stream using the selected one of the plurality of encoding parameter sets to output the encoded stream with principles set forth by the encoding parameter set.

Claim 9 (Currently Amended): The apparatus of claim 1, wherein the encoder manager comprises a bandwidth manager for ~~determining~~ selecting the one of the plurality of the encoding parameter sets ~~based on~~ in accordance with the encoding scheme.

Claim 10 (Currently Amended): The apparatus of claim 1, wherein the encoder system comprises an encoder for executing the selected one of the encoding ~~encoder~~ parameter sets.

Claim 11 (Previously Presented): The apparatus of claim 1, further comprising a transceiver for wirelessly transmitting the re-encoded stream to a mobile station.

Claim 12 (Original): The apparatus of claim 1, wherein the encoding system providing an output configurable for handheld devices that require a first frame rate and a first bandwidth.

Claim 13 (Original): The apparatus of claim 12, wherein:  
the first frame rate is 10 frames per second; and  
the first bandwidth is within 16 kilo bits per second.

Claim 14 (Previously Presented): The apparatus of claim 1,  
wherein the received stream comprises a stream of a first resolution, and  
wherein the encoding system re-encodes the received stream by re-encoding the stream of a first resolution to a stream of a second resolution, a first frame rate and a first bandwidth.

Claim 15 (Previously Presented): The apparatus of claim 14, wherein:  
the first resolution is a video graphics array (VGA) format; and  
the second resolution and first frame rate are configured for a handheld device.

Claim 16 (Currently Amended): The apparatus of claim 1,  
wherein the user preference further specifies a demand to provide the multimedia stream at a lowest cost,

wherein the encode manager further selects one of the plurality of encoding parameter sets that provides a high rate of compression and a lower quality of service to provide the lowest cost in accordance with the demand specified by the user preference.

~~14, wherein:~~

~~the first frame rate is within 10 to 15 frames per second; and~~

~~the first bandwidth is within 16 to 64 kilo bits per second.~~

Claim 17 (Currently Amended): The apparatus of claim 1, wherein the encode manager selects two or more of the plurality of encoding parameter sets in accordance with an encoding scheme. 4, wherein:

~~the first frame rate is within 10 to 15 frames per second; and~~

~~the first bandwidth is within 32 to 64 kilo bits per second.~~

Claim 18 (Currently Amended): The apparatus of claim 1,  
wherein the first encoding parameter is only for encoding audio data,  
wherein the second encoding parameter set is only for encoding video data, and  
wherein the encode manager selects the first one of the plurality of encoding parameter sets and a second one of the plurality of encoding parameter sets to only encode an audio type and a video type of the multimedia stream. 4, wherein the second resolution is a resolution of a quarter common intermediate format (QCIF) or smaller.

Claim 19 (Cancelled)

Claim 20 (Original): The apparatus of claim 1, further comprising a computer configured to receive the multimedia stream from a mobile station.

Claim 21 (Previously Presented): The apparatus of claim 20, wherein the mobile station is operable in the wireless communication system.

Claim 22 (Original): The apparatus of claim 1, wherein the multimedia stream is received using an over the air communication air interface.

Claim 23 (Original): The apparatus of claim 1, wherein the multimedia stream is received using an internet connection.

Claim 24 (Previously Presented): The apparatus of claim 1, further comprising a customer manager for generating billing information based on user preference.

Claim 25 (Currently Amended): A method for providing digital multimedia in a wireless communication system, comprising:

determining with a customer manager of the wireless communication system a user preference for selective re-encoding of a multimedia stream

receiving ~~[[a]]~~the multimedia stream at an encode manager of the wireless communication system;

~~dynamically determining a current bandwidth available for the multimedia stream within the wireless communication system based on a current number and types of users using the wireless communication system;~~

selecting at least one of a plurality of encoding parameter sets in accordance with an encoding scheme,

wherein the encoding scheme includes a scheme based on a user preference,

wherein the multimedia stream includes a plurality of different types of data,

wherein the plurality of encoding parameter sets include a first encoding parameter set for encoding only a first type of the plurality of types of data, a second encoding parameter set for encoding only a second type of the plurality of types of data different from the first type and a third encoding parameter set for encoding multiple types of the plurality of types of data, and

wherein the user preference indicates which of the first, second and third encoding parameter sets to use when encoding the multimedia stream; and

selectively re-encoding, with an encoder system of the wireless communication system, the received stream using ~~[[an]]~~the selected one of the plurality of encoding parameter sets to output an encoded stream with principles set forth by the selected one of the plurality of encoding parameter sets; ~~wherein the encoding parameter set is determined according to a first encoding scheme based on the currently determined available bandwidth within the wireless communication system.~~

Claim 26 (Currently Amended): The method of claim 25, further comprising selecting the ~~first~~ encoding scheme from a group ~~consisting of~~ encoding schemes that include a scheme based on a system bandwidth, a scheme based on a wireless receiver capability, a scheme based on a number of users requesting a specific multimedia stream at a designated QoS, a scheme based on

a multimedia data type, ~~[[a]]the~~ scheme based on ~~[[a]]the~~ user preference and a scheme based on characteristics of a mobile station.

Claim 27 (Currently Amended): The method of claim 26, further comprising generating billing information using the scheme based on the user preference.

Claim 28 (Currently Amended): The method of claim 26, further comprising generating billing information using the scheme based on the multimedia data type.

Claim 29 (Currently Amended): The method of claim 26, further comprising executing the selected one of the plurality of encoding ~~encoder~~ parameter sets using an encoder.

Claim 30 (Currently Amended): The method of claim 26, further comprising executing the selected one of the plurality of encoding ~~encoder~~ parameter sets using a plurality of encoders.

Claim 31 (Cancelled)

Claim 32 (Previously Presented): The method of claim 25, further comprising receiving the multimedia stream at a decoder and decoding the received stream to output a decoded stream.

Claim 33 (Cancelled).

Claim 34 (Currently Amended): The method of claim 25, further comprising executing the selected at least one of the encoding ~~encoder~~ parameter sets using an encoder.

Claim 35 (Previously Presented): The method of claim 25, further comprising wirelessly transmitting the re-encoded stream.

Claim 36 (Original): The method of claim 25, further comprising generating an output, configurable for handheld devices that require a first frame rate and a first bandwidth.

Claim 37 (Original): The method of claim 36, wherein:

the first frame rate is 10 frames per second; and  
the first bandwidth is within 16 kilo bits per second.

Claim 38 (Previously Presented): The method of claim 25,

wherein the received stream includes a stream of a first resolution, and  
wherein the encoding system re-encodes the stream of the first resolution to stream of a second resolution, a first frame rate and a first bandwidth.

Claim 39 (Previously Presented): The method of claim 38, wherein:

the first resolution is a video graphics array (VGA) format; and  
the second resolution and first frame rate are configured for a handheld device.

Claim 40 (Original): The method of claim 38, wherein:

the first frame rate is within 10 to 15 frames per second; and  
the first bandwidth is within 16 to 64 kilo bits per second.

Claim 41 (Currently amended): The method of claim 25,38, ~~wherein~~

~~the first frame rate is within 10 to 15 frames per second; and~~  
~~the first bandwidth is within 32 to 64 kilo bits per second.~~

wherein the user preference further specifies a demand to provide the multimedia stream at a lowest cost,

wherein selecting at least one of a plurality of encoding parameter sets comprises selecting one of the plurality of encoding parameter sets that provides a high rate of compression and a lower quality of service to provide the lowest cost in accordance with the demand specified by the user preference.



Claim 42 (Currently Amended): The method of claim 25, wherein selecting at least one of the plurality of encoding parameter sets comprises selecting two or more of the plurality of encoding parameter sets in accordance with the encoding scheme,

wherein selectively re-encoding the received stream comprises selectively re-encoding the received stream using the selected two or more of the plurality of encoding parameter sets.

~~38, wherein the second resolution is a resolution of a quarter common intermediate format (QCIF) or smaller.~~

Claim 43 (Currently Amended): The method of claim 42,

wherein the first encoding parameter is only for encoding audio data,

wherein the second encoding parameter set is only for encoding video data, and

wherein selecting two or more of the plurality of encoding parameter sets includes selecting the first one of the plurality of encoding parameter sets and a second one of the plurality of encoding parameter sets

wherein selectively re-encoding the received stream comprises selectively re-encoding the received stream using the first and second and the other selected one of the plurality of encoding parameter sets to only encode an audio type and a video type of the multimedia stream  
~~38, wherein the second resolution is a resolution of a common intermediate format (CIF) or larger.~~

Claim 44 (Original): The method of claim 25, further comprising receiving the multimedia stream from a mobile station.

Claim 45 (Previously Presented): The method of claim 44, wherein the mobile station is operable in the wireless communication system.

Claim 46 (Original): The method of claim 25, further comprising receiving the multimedia stream via a communication air interface.

Claim 47 (Original): The method of claim 25, further comprising receiving the multimedia stream via an internet connection.

Claim 48 (Currently Amended): The method of claim 25, further comprising generating billing information based on the user[['s']] preference.

Claim 49 (Currently Amended): An apparatus, operable in a wireless communication system, comprising:

means for receiving, within the wireless communication system, a decoded stream;

~~means for re-encoding, within the wireless communication system, the received decoded stream to output an encoded stream;~~

~~means for dynamically determining a current bandwidth available for the stream within the wireless communication system based on a current number and types of users using the wireless communication system; and~~

means for determining a user preference for selectively re-encoding the decoded stream;

means for selectingdetermining, within the wireless communication system, at least one of a plurality of encoding an encoder parameter sets in accordance with an encoding scheme to use for re-encoding the received decoded stream,

wherein the encoding scheme includes a scheme based on the user preference,

wherein the decoded stream includes a plurality of different types of data,

wherein the plurality of encoding parameter sets include a first encoding parameter set for encoding only a first type of the plurality of types of data, a second encoding parameter set for encoding only a second type of the plurality of types of data different from the first type and a third encoding parameter set for encoding multiple types of the plurality of types of data, and

wherein the user preference indicates which of the first, second and third encoding parameter sets to use when encoding the decoded stream; and

means for re-encoding, within the wireless communication system, the received decoded stream to output an encoded stream in accordance with the selected one of the plurality of encoding parameter sets[[:]]

~~wherein the encoder parameter set is determined according to an encoding scheme based on the currently determined available bandwidth of the wireless communication system.~~

Claim 50 (Currently Amended): The apparatus of claim 49, further comprising means for selecting the first encoding scheme from a group consisting of encoding schemes that include a scheme based on a system bandwidth, a scheme based on a wireless receiver capability, a

scheme based on a number of users requesting a specific multimedia stream at a designated QoS, a scheme based on a multimedia data type, ~~[[a]]~~the scheme based on ~~[[a]]~~the user preference and a scheme based on characteristics of a mobile station.

Claim 51 (Currently Amended): The apparatus of claim 50, further comprising means for generating billing information using the scheme based on the user preference.

Claim 52 (Currently Amended): The apparatus of claim 50, further comprising means for generating billing information using the scheme based on the multimedia data type.

Claim 53 (Currently Amended): The apparatus of claim 50, further comprising means for executing the selected one of the plurality of encoding ~~encoder~~ parameter sets using an encoder.

Claim 54 (Currently Amended): The apparatus of claim 50, further comprising means for executing the selected one of the encoding ~~encoder~~ parameter sets using a plurality of encoders.

Claim 55 (Cancelled)

Claim 56 (Previously Presented): The apparatus of claim 49, further comprising means for receiving the multimedia stream at a decoder and decoding the received stream to output the decoded stream.

Claim 57 (Cancelled)

Claim 58 (Currently Amended): The apparatus of claim 49, further comprising means for executing the selected one of the encoding ~~encoder~~ parameter sets using an encoder.

Claim 59 (Previously Presented): The apparatus of claim 49, further comprising means for transmitting the re-encoded stream.

Claim 60 (Original): The apparatus of claim 49, further comprising means for generating an output, configurable for handheld devices that require a first frame rate and a first bandwidth.

Claim 61 (Original): The apparatus of claim 60, wherein:  
the first frame rate is 10 frames per second; and  
the first bandwidth is within 16 kilo bits per second.

Claim 62 (Previously Presented): The apparatus of claim 49, wherein the received stream comprises a stream of a first resolution and means for re-encoding the received stream comprises means for re-encoding the stream of the first resolution to a stream of a second resolution, a first frame rate and a first bandwidth.

Claim 63 (Previously Presented): The apparatus of claim 62, wherein:  
the first resolution is a video graphics array (VGA) format; and  
the second resolution and first frame rate are configured for a handheld device.

Claim 64 (Original): The apparatus of claim 62, wherein:  
the first frame rate is within 10 to 15 frames per second; and  
the first bandwidth is within 16 to 64 kilo bits per second.

Claim 65 (Currently Amended): The apparatus of claim ~~49, 62, wherein:~~  
~~the first frame rate is within 10 to 15 frames per second; and~~  
~~the first bandwidth is within 32 to 64 kilo bits per second.~~  
wherein the user preference further specifies a demand to provide the multimedia stream at a lowest cost,  
wherein the means for selecting at least one of a plurality of encoding parameter sets comprises means for selecting one of the plurality of encoding parameter sets that provides a high rate of compression and a lower quality of service to provide the lowest cost in accordance with the demand specified by the user preference.

Claim 66 (Currently Amended): The apparatus of claim ~~49~~62, ~~wherein the second resolution is a resolution of a quarter common intermediate format (QCIF) or smaller.~~

wherein the means for selecting at least one of the plurality of encoding parameter sets comprises means for selecting two or more of the plurality of encoding parameter sets in accordance with the encoding scheme,

wherein the means for selectively re-encoding the received stream comprises means for selectively re-encoding the received stream using the selected two or more of the plurality of encoding parameter sets.

Claim 67 (Currently Amended): The apparatus of claim 66,

wherein the first encoding parameter is only for encoding audio data,

wherein the second encoding parameter set is only for encoding video data, and

wherein the means for selecting two or more of the plurality of encoding parameter sets includes means for selecting the first one of the plurality of encoding parameter sets and a second one of the plurality of encoding parameter sets

wherein the means for selectively re-encoding the received stream comprises means for selectively re-encoding the received stream using the first and second and the other selected one of the plurality of encoding parameter sets to only encode an audio type and a video type of the multimedia stream.

~~62, wherein the second resolution is a resolution of a common intermediate format (CIF) or larger.~~

Claim 68 (Original): The apparatus of claim 49, further comprising means for receiving the multimedia stream from a mobile station.

Claim 69 (Previously Presented): The apparatus of claim 68, wherein the mobile station is operable in wireless communication system.

Claim 70 (Original): The apparatus of claim 49, further comprising means for receiving the multimedia stream via a communication air interface.

Claim 71 (Original): The apparatus of claim 49, further comprising means for receiving the multimedia stream via an internet connection.

Claim 72 (Currently Amended): The apparatus of claim 49, further comprising means for generating billing information based on the user[['s']] preference.

Claim 73 (Currently Amended): A mobile station, operable in a communication system, comprising:

a transceiver configured to communicate with a wireless provider system; and

a processor for displaying a multimedia stream received from the wireless provider system via the transceiver, wherein the multimedia stream is encoded using one of a plurality of encoding parameter sets in accordance with an first encoding scheme selected from a group of encoding schemes,

wherein the first selected encoding scheme comprises a scheme based a user preference,

wherein the multimedia stream includes a plurality of different types of data,

wherein the plurality of encoding parameter sets include a first encoding parameter set for encoding only a first type of the plurality of types of data, a second encoding parameter set for encoding only a second type of the plurality of types of data different from the first type and a third encoding parameter set for encoding multiple types of the plurality of types of data, and

wherein the user preference indicates which of the first, second and third encoding parameter sets to use when encoding the multimedia stream ~~on a currently determined bandwidth available for the multimedia stream within the communication system, and wherein the current bandwidth available for the stream within the wireless communication system is dynamically determined based on a current number and types of users using the wireless communication system.~~

Claim 74 (Currently Amended): The mobile station of claimed in 73, wherein the group of encoding schemes includes a scheme based on a system bandwidth a scheme based on a wireless receiver capability, a scheme based on a number of users requesting a specific multimedia stream at a designated QoS, a scheme based on a multimedia data type, ~~[[a]]the~~ scheme based on ~~[[a]]the~~ user preference and a scheme based on characteristics of a mobile station.

Claim 75 (Currently Amended): The mobile station of claim 74, wherein the scheme based on the user preference is used to generate billing information.



Claim 76 (Currently Amended): The mobile station of claim 74, wherein the scheme based on the multimedia data type is used to generate billing information.

Claim 77 (Currently Amended): The mobile station of claim 74, further comprising an encoder for executing ~~an~~ the one of the encoder parameter sets based on the encoding scheme.

Claim 78 (Currently Amended): The mobile station of claim 74, further comprising a plurality of encoders, each for executing ~~an~~ one of the plurality of encoder parameter sets based on the encoding scheme.

Claim 79 (Previously Presented): The mobile station of claim 74, further comprising a bandwidth manager for determining the available bandwidth for the multimedia stream.

Claim 80 (Currently Amended): A communication system, comprising:

a customer manager to determine a user preference for selective re-encoding of a multimedia stream;

an encode manager that receives ~~[[a]]~~the multimedia stream, wherein the multimedia stream is encoded at a first resolution; and

an encoder system that dynamically customizes a re-encoding of the received stream to a second resolution using an encoding parameter set selected from a plurality of encoding parameter sets to selectively render an encoded stream with principles set forth by the selected encoding parameter set, wherein the selected encoding parameter set is determined based on an encoding scheme selected from a group of encoding schemes,

wherein the encoding scheme comprises a scheme based on a user preference,

wherein the multimedia stream includes a plurality of different types of data,

wherein the plurality of encoding parameter sets include a first encoding parameter set for encoding only a first type of the plurality of types of data, a second encoding parameter set for encoding only a second type of the plurality of types of data different from the first type and a third encoding parameter set for encoding multiple types of the plurality of types of data, and

wherein the user preference indicates which of the first, second and third encoding parameter sets to use when encoding the multimedia stream ~~currently determined bandwidth available for the multimedia stream within the communication system, and wherein the current bandwidth available for the stream within the wireless communication system is dynamically determined based on a current number and types of users using the wireless communication system.~~

Claim 81 (Currently Amended): A communication system, comprising:

at least one decoder receiving an incoming encoded multimedia stream[[s]] and decoding the stream[[s]] to render a decoded stream[[s]];

a customer manager to determine a user preference for selective re-encoding of the decoded stream;

at least one encoding system configured for receiving [[a]]~~the~~ decoded stream and encoding [[it]] the decoded stream using at least one of ~~at least two~~ a plurality of encoding parameter sets to render an encoded stream;

at least one computer that selects the at least one of the plurality of encoding parameter based on a user preference, wherein at least one of the multimedia streams includes a plurality of different types of data, wherein the plurality of encoding parameter sets include a first encoding parameter set for encoding only a first type of the plurality of types of data, a second encoding parameter set for encoding only a second type of the plurality of types of data different from the first type and a third encoding parameter set for encoding multiple types of the plurality of types of data, and wherein the user preference indicates which of the first, second and third encoding parameter sets to use when encoding the multimedia stream~~dynamically determines a current bandwidth available for the multimedia stream within the communication system based on a current number and types of users using the communication system and determines which encoding parameter set to use to encode a decoded stream based on the currently determined available bandwidth;~~ and

at least one wireless transceiver for transmitting an encoded stream.

Claim 82 (Cancelled)

Claim 83 (Cancelled)

Claim 84 (Currently Amended): The system of Claim 81, wherein the computer further determines which of the ~~at least two~~ plurality of encoding parameter sets to use based at least in part on a wireless mobile receiver capability.

Claim 85 (Currently Amended): The system of Claim 81, wherein the computer further determines which of the ~~at least two~~ plurality of encoding parameter sets to use based at least in part on a number of users requesting a specific multimedia stream at a designated QoS for that stream.

Claim 86 (Currently Amended): The system of Claim 81, wherein the computer further determines which of the ~~at least two~~ plurality of encoding parameter sets to use based at least in part on a multimedia data type.

Claim 87 (Cancelled)

Claim 88 (Original): The system of Claim 86, wherein a user's service classification is used to generate billing information.

Claim 89 (Original): The system of Claim 86, wherein characteristics of the encoded multimedia stream are used to generate billing information.

Claim 90 (Original): The system of Claim 86, wherein mobile receiver capabilities are used to generate billing information.

Claim 91 (Currently Amended): The system of Claim 81, wherein at least one of the ~~at least two~~ plurality of encoding parameter sets is capable of encoding a multimedia stream at a resolution of a quarter common intermediate format (QCIF) or smaller.

Claim 92 (Currently Amended): The system of Claim 81, wherein at least one of the ~~at least two~~ plurality of encoding parameter sets is capable of encoding a multimedia stream at a resolution of a common intermediate format (CIF) or larger.

Claim 93 (Previously Presented): A method for wirelessly providing digital multimedia within a wireless communication system, comprising:

receiving an encoded multimedia stream;

decoding the stream to render a decoded stream;

~~dynamically determining a current bandwidth available for the multimedia stream within the wireless communication system based on a current number and types of users using the wireless communication system;~~

selecting at least one of ~~at least two~~ a plurality of encoding schemes to re-encode the stream at a wireless provider facility to render a re-encoded stream based on a user preference, wherein at least one of the multimedia streams includes a plurality of different types of data, wherein the plurality of encoding parameter sets include a first encoding parameter set for encoding only a first type of the plurality of types of data, a second encoding parameter set for encoding only a second type of the plurality of types of data different from the first type and a third encoding parameter set for encoding multiple types of the plurality of types of data, and wherein the user preference indicates which of the first, second and third encoding parameter sets to use when encoding the multimedia stream~~the currently determined available bandwidth;~~ and

wirelessly transmitting the re-encoded stream to at least one wireless mobile station.

Claim 94 (Original): The method of Claim 93, wherein the selecting act is undertaken dynamically.

Claim 95 (Cancelled)

Claim 96 (Original): The method of Claim 93, wherein the selecting act is undertaken based at least in part on a wireless mobile receiver capability.

Claim 97 (Cancelled)

Claim 98 (Original): The method of Claim 93, comprising using a user's service classification to generate billing information.

Claim 99 (Original): The system of Claim 93, comprising using characteristics of the encoded multimedia stream to generate billing information.

Claim 100 (Original): The system of Claim 93, comprising using mobile receiver capabilities is used to generate billing information.

Claim 101 (Original): The method of Claim 93, wherein the selecting act is undertaken based at least in part on a multimedia data type.

Claim 102 (Currently Amended): A wireless provider system, comprising:

means for decoding a received encoded multimedia stream, wherein the encoded multimedia stream includes a plurality of different types of data;

first means for re-encoding only a first type of the plurality of types of the data ~~the stream;~~

second means for re-encoding only a second type different from the first type of the plurality of types of the data ~~the stream;~~

third means for re-encoding multiple types of the plurality of types of the data;

~~means for dynamically determining a current bandwidth available for the multimedia stream within the wireless provider system based on a current number and types of users using the wireless provider system; and~~

logic means for determining which one of the first, ~~and second~~ and third means for re-encoding the stream to use, based on at least one factor that includes a user preference, wherein the user preference indicates which of the first, second and third means to use when encoding the multimedia stream ~~the currently determined available bandwidth.~~

Claim 103 (Cancelled)

Claim 104 (Cancelled)

Claim 105 (Original): The system of Claim 102, wherein the factor is a wireless user characteristic.

Claim 106 (Original): The system of Claim 102, wherein the factor is a multimedia data type.

Claim 107 (Cancelled)

Claim 108 (Previously Presented): The system of Claim 102, further comprising means for generating billing information based on a user service classification.

Claim 109 (Previously Presented): The system of Claim 102, further comprising means for generating billing information based on characteristics of the encoded multimedia stream.

Claim 110 (Previously Presented): The system of Claim 102, further comprising means for generating billing information based on mobile receiver capabilities.

Claim 111 (Currently Amended): The system of claim 102, wherein the factor is selected from group of factors ~~consisting of~~ that include a factor based on a system bandwidth, a factor based on a current available system bandwidth, a factor based on a wireless user characteristic, a factor based on a number of users requesting a specific multimedia stream at a designated QoS a factor based on a multimedia data type and the factor based on a the wireless user preference.

Claim 112 (Currently Amended): A communication system, comprising:

decoder means for receiving incoming encoded multimedia streams and decoding the streams to output decoded streams;

encoder means for receiving and encoding at least one of the decoded streams using one of ~~at least two~~ a plurality of encoding parameter sets to output an encoded stream,

wherein the encoder means further includes means for selecting the one of the plurality of encoding schemes based on a user preference, wherein at least one of the multimedia streams includes a plurality of different types of data, wherein the plurality of encoding parameter sets include a first encoding parameter set for encoding only a first type of the plurality of types of data, a second encoding parameter set for encoding only a second type of the plurality of types of data different from the first type and a third encoding parameter set for encoding multiple types of the plurality of types of data, and wherein the user preference indicates which of the first, second and third encoding parameter sets to use when encoding the multimedia stream [[:]]

~~means for dynamically determining a current bandwidth available for each of the multimedia streams within the communication system based on a current number and types of users using the communication system; and~~

~~means for determining which encoding parameter set to use to encode the at least one of the decoded streams based on the currently determined available bandwidth; and~~  
~~transceiver means for transmitting an encoded stream.~~

Claim 113 (Cancelled):

Claim 114 (Cancelled)

Claim 115 (Currently Amended): The system of Claim 112, wherein the encoder means includes means for determining which of the ~~at least two~~ plurality of encoding parameter sets to use based at least in part on a wireless mobile receiver capability.



Claim 116 (Currently Amended): The system of Claim 112, wherein the encoder means includes means for determining which of the ~~at least two~~ plurality of encoding parameter sets to use based at least in part on a number of users requesting a specific multimedia stream at a designated QoS for that stream.

Claim 117 (Currently Amended): The system of Claim 112, wherein the encoder means includes means for determining which of the ~~at least two~~ plurality of encoding parameter sets to use based at least in part on a multimedia data type.

Claim 118 (Currently Amended): The system of Claim 112, wherein the encoder means includes means for determining which of the ~~at least two~~ plurality of encoding parameter sets to use based at least in part on a wireless user preference.

Claim 119 (Original): The system of Claim 112, further comprising a billing means for generating billing information based on a user's classification.

Claim 120 (Original): The system of Claim 112, further comprising a billing means for generating billing information based on characteristics of the encoded multimedia stream a user's classification.

Claim 121 (Original): The system of Claim 112, further comprising a billing means for generating billing information based on mobile receiver capabilities.

Claim 122 (Currently Amended): The system of Claim 112, wherein at least one of the ~~at least two~~ plurality of encoding parameter sets comprises an encoding parameter set that is used to encode the multimedia stream at a resolution of a quarter common intermediate format (QCIF) or smaller.

Claim 123 (Currently Amended): The system of Claim 112, wherein at least one of the ~~at least two~~ plurality of encoding parameter sets comprises an encoding parameter set that is used

to encode the multimedia stream at a resolution of a common intermediate format (CIF) or larger.

Claim 124 (New): The system of Claim 81, wherein the computer determines which of the plurality of encoding parameter sets to use based at least in part on a system bandwidth.

Claim 125 (New): The system of Claim 81, wherein the computer determines which of the plurality of encoding parameter sets to use based at least in part on a current available system bandwidth.

Claim 126 (New): The method of Claim 93, wherein the selecting act is undertaken at least in part based on a bandwidth.

Claim 127 (New): The system of Claim 102, wherein the factor is a system bandwidth.

Claim 128 (New): The system of Claim 102, wherein the factor is a current available system bandwidth.

Claim 129 (New): The system of Claim 112, wherein the encoder means further includes means for determining which of the plurality of encoding parameter sets to use based at least in part on a system bandwidth.

Claim 130 (New): The system of Claim 112, wherein encoder means further includes means for determining which encoding parameter set to use based at least in part on a current available system bandwidth.